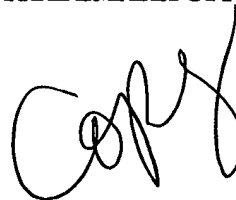


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of

Applicant : R. G. Hartmann, et al.
Serial No. : 09/965,075
Filed : 27 Sep 2001
Examiner : n/a
Group : 2182 2154
Docket No. : END920010023US1
Entitled : System and Method for Providing Charater Interactive Input/Output



Received

SEP 17 2002

Technology Center 2100

Assistant Commissioner of Patents
Washington, D.C. 20231
Dear Sir:

**POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)**

As assignee of record of the entire interest of the above-identified application,

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given are revoked and

NEW POWER OF ATTORNEY

the following attorneys and/or agents are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith:

Name	Registration Number
William J. McGinnis	25,698
Steven W. Roth	34,712
James R. Nock	42,937
Leslie J. Payne	26,378
Grant A. Johnson	42,696
Robert R. Williams	48,395
John E. Hoel	26,279
Christopher A. Hughes	26,914
Stanley B. Green	24,351
Joseph C. Redmond, Jr.	18,753
Shelley M Beckstrand	24,886

**ASSIGNEE CERTIFICATION
"CERTIFICATION UNDER 37 C.F.R. 3.73(b)"**

IBM Corporation certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of:

An assignment from the inventor(s) of the patent application identified above, for which a copy is enclosed. The undersigned has reviewed all the documents in the chain of title of the patent

END920010023US1

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application identified above, and to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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17 Sept. 2002

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Title:

Program Manager, Patent Office Liaison
Intellectual Property Law Department, Washington

Signature:

Jeffrey L. Forman